MAY 2 9 2003

510(k) Summary

This summary of 510(k) safety and effectiveness information is submitted in accordance with the requirements of the Safe Medical Devices Act of 1990 and 21 C.F.R. §807.92.

1. The submitter of this premarket notification is:

Hauke Schik

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This summary was prepared on May 05, 2003.

2. The names of the devices are the Philips MP60, MP70, and MP90 Intellivue Patient Monitor. Classification names are as follows:

Device Panel	Classification	ProCode	Description
Circulatory	§870.1025, III	DSI	Detector and alarm, arrhythmia
System Devices	\$870.1025, III	MLD	Monitor, ST Segment with Alarm
(12625)	\$870.1025, III	MHX	Monotor, Physiological, Patient
	,		(with arrhythmia detection or
			alarms)
	\$870.1100, II	DSJ	Alarm, Blood Pressure
	\$870.1110, II	DSK	Computer, Blood Pressure
	\$870.1130, II	DXN	System, Measurement, Blood-
			Pressure, Non-Invasive
	\$870.1435, II	DXG	Computer, Diagnostic, Pre-
			Programmed, Single-Function
	§870.1915, II	KRB	Probe, Thermodilution
	\$870.2060, II	DRQ	Amplifier and Signal
			Conditioner, Transducer Signal
	\$870.2300, II	DRT	Monitor, Cardiac (incl.
			Cardiotachometer & Rate Alarm)
	\$870.2340, II	DPS	Electrocardiograph
	\$870.2340, II	MLC	Monitor, ST Segment
	\$870.2350, II	DRW	Electrocardiograph, Lead
			Switching Adapter
	\$870.23 70 , II	KRC	Tester, Electrode, Surface,
			Electrocardiograph
	\$870.2450, II	DXJ	Display, Cathode-Ray Tube,
			Medical
	\$870.2600, I	DRJ	System, Signal Isolation
	\$870.2700, II	DQA	Oximeter
	\$870.2770, II	DSB	Plethysmograph, Impedance
	\$870.2800, II	DSH	Recorder, Magnetic tape,
			Medical
	\$870.2810, I	DSF	Recorder, Paper Chart
	\$870.2850, II	DRS	Extravascular Blood Pressure
	5070 0000 #		Transducer
	§870.2900, I	DSA	Cable, Transducer and
		}	Electrode, incl. Patient
	1		Connector

			
	-	MSX	System, Network and
			Communication, Physiological
			Monitors
Anesthesiology	§868.1400, II	CCK	Analyzer, Gas, Carbon Dioxide,
and Respiratory			Gaseous-Phase
Therapy (12624)	\$868.1500, II	CBQ	Analyzer, Gas, Enflurane,
			Gaseous-Phase (Anesthetic
			Concentration)
	\$868.1500, II	NHO	Analyzer, Gas, Desflurane,
			Gaseous-Phase (Anesthetic
			Concentration)
	\$868.1500, II	NHP	Analyzer, Gas, Sevoflurane,
			Gaseous-Phase (Anesthetic
			Concentration)
	\$868.1500, II	NHQ	Analyzer, Gas, Isoflurane,
	3000.1000, 11	2	Gaseous-Phase (Anesthetic
			Concentration)
	\$868.1620, II	CBS	Analyzer, Gas, Halothane,
	3000.1020, 11	CDS	Gaseous-Phase (Anesthetic
			Concentration)
	\$868.1700, II	CBR	Analyzer, Gas, Nitrous Oxide,
	3000:1700, 11	CDR	Gaseous-Phase (Anesthetic
			Concentration)
	\$868.1720, II	CCL	Analyzer, Gas, Oxygen, Gaseous-
	3000.1720, 11	ССБ	Phase
	\$868.2375, II	BZQ	Monitor, Breathing Frequency
	\$868.2480, II	LKD	Monitor, Carbon Dioxide,
	3000.2400, 11	מאם	Cutaneous
	6060 2500 TT	77.77	
	\$868.2500, II	KLK	Monitor, Oxygen, Cutaneous, for
Garage I Harris 1	6000 2010 77		Infant not under Gas Anesthesia
General Hospital	\$880.2910, II	FLL	Thermometer, Electronic,
and Personal Use			Clinical
(12520)			
Neurological	§882.1400, II	GWR	Electroencephalograph
(12513)	\$882.1420, I	GWS	Analyzer, Spectrum,
			Electroencephalogram Signal

- 3. The new devices are substantially equivalent to previously cleared Philips devices marketed pursuant to K001664, K021778 and 030038.
- 4. The modification is updated software of the Philips Medical System MP60, MP70 and MP90 IntelliVue patient monitor devices.
- 5. The new devices have the same intended use as the legally marketed predicate devices. When used in the hospital environment, they are intended for the monitoring, recording, and alarming of multiple physiological parameters of adults, pediatrics, and neonates.
- 6. The new devices have the same technological characteristics as the legally marketed predicate devices.
- 7. Verification, validation, and testing activities establish the performance, functionality, and reliability characteristics of the new device with respect to the

predicate. Testing involved system level tests, performance tests, and safety testing from hazard analysis. Pass/Fail criteria were based on the specifications cleared for the predicate device and test results showed substantial equivalence. The results demonstrate that Component Compact Monitor meets all reliability requirements and performance claims.



Food and Drug Administration 9200 Corporate Boulevard Rockville MD 20850

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Cardiac and Monitoring Systems
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Re: K031481

Trade Name: The Philips MP60, MP70 and MP90 IntelliVue Patient Monitors

Regulation Number: 21 CFR 870.1025

Regulation Name: Arrhythmia detector and alarm

Regulatory Class: Class III (three)

Product Code: MHX Dated: May 5, 2003 Received: May 12, 2003

Dear Mr. Schik:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the <u>Federal Register</u>.

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Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050. This letter will allow you to begin marketing your device as described in your Section 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Office of Compliance at (301) 594-4646. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR Part 807.97). You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 443-6597 or at its Internet address http://www.fda.gov/cdrh/dsma/dsmamain.html

Sincerely yours,

Bram D. Zuckerman, M.D.

Director

Division of Cardiovascular Devices

Office of Device Evaluation

Center for Devices and Radiological Health

Enclosure

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510(k) Number (if known):	
Device Name: The Philips IntelliVue MP60, MP70, a	nd MP90 Patient

Indications for Use: Indicated for use by health care professionals whenever there is a need for monitoring the physiological parameters of patients. Intended for monitoring, recording and alarming of multiple physiological parameters of adults, pediatrics and neonates in hospital environments.

 ${\tt EASI}$ 12-lead ECG is only for use on adult and pediatric patients.

ST Segment monitoring is restricted to adult patients only.

The transcutaneous gas measurement $(tcpO_2 / tcpCO_2)$ is restricted to neonatal patients only.

(PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE IF NEEDED)

Concurrence of CDRH, Office of Device Evaluation (ODE)

Prescription Use X (Per 21 CFR 801.109)

(Optional Format 1-2-94

(Division Sign-Off)

Division of Cardiovascular Devices

510(k) Number_

Over-The-Counter

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